

COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET RICHMOND, VIRGINIA 23219 (804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT:

Intox EC/IR II

SERIAL NUMBER:

010591

CERTIFICATION DATE:

January 29, 2014

DATE RECERTIFICATION DUE:

July 28, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

 0.020 ± 0.004 g/210 L

 0.150 ± 0.007 g/210 L

 0.080 ± 0.004 g/210 L

 0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

Sarah E. Dersch Forensic Scientist

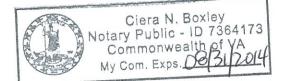
CITY OF RICHMOND COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this day of

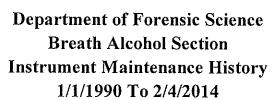
2014 by Sarah E. Dersch

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



WOK





Instrument Serial Number:		010591	As of 04-Feb-14
Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
29-Jan-14	29-Jan-14	SED (24178)	CERTIFIED.
15-Aug-13	15-Aug-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
26-Feb-13	26-Feb-13	TLN (25387)	CERTIFIED
06-Sep-12	06-Sep-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
21-Mar-12	21-Mar-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
13-Oct-11	13-Oct-11	HMS (18910)	CALIBRATED AND CERTIFIED.
22-Jan-10	22-Jan-10	DBH (21250)	RESEATED U26, CERTIFIED
04-Aug-09	04-Aug-09	RJP (22428)	CERTIFIED. REPLACED DRY GAS STANDARD.
14-Apr-09	14-Apr-09	RJP (22428)	CERTIFIED.
19-Mar-09	19-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
04-Feb-09	04-Feb-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.



INTOX EC/IR II

Quality Assurance Worksheet

Instrument Serial Number 010591 Worksheet Start Date 1/29/2014 Location Loudoun Co Eastern Address 46620 E Frederick Dr, Sterling, Va 20164 DFS Technician Sarah Dersch License No. 24178 T Laboratory ☑ On-Site V Site Specification: No detrimental environmental conditions exist. Instrument Barometer (mm HG) 761 Reference Barometer (mm HG) 762 Reference Barometer(RB)Serial # 009111 **RB** Calibration Due 5/23/2014 Measurement Assurance Check Sample 1 0.303 Standard (sea level) **PA Target** minimum maximum 0.309 0.300 0.300 0.291 Sample 2 0.303 Precision sample min sample max Sample 3 0.302 0.001 0.302 0.303 Sample 1 0.101 Standard (sea level) PA Target minimum maximum 0.100 Sample 2 0.101 0.100 0.097 0.103 Sample 3 0.101 Precision sample min sample max 0 0.101 0.101 AG227501-24 Dry gas standard Lot No. (with tank no.) ☐ Replaced dry gas standard (+O-ring) Supplies Mouthpieces 50 Installed at Location Certificates of Analysis 50

Operator Worksheet

Other:

Notes:

☐ Removed to DFS-Central

50

Instrument Serial	Number
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010591

Certification Date

1/29/2014

Calibrated

Certified

Measurement Assurance Check

✓ Instrument Test

Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.251
0.250	0.250	0.242	0.257	Sample 2	0.251
Precision		sample min	sample max	Sample 3	0.251
0		0.251	0.251		
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.150
0.150	0.150	0.145	0.154	Sample 2	0.150
Precision		sample min	sample max	Sample 3	0.150
0		0.150	0.150		
Standard (sea level)	DA Target	minimum	mavimum	Cample 4	0.000
Standard (sea level)	PA Target 0.080	0.077	maximum 0.083	Sample 1	0.080
Precision	0.000	sample min		Sample 2	0.080
0.001		0.080	sample max 0.081	Sample 3	0.081
0.001		0.080	0.061		
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.020
0.020	0.020	0.017	0.023	Sample 2	0.020
Precision		sample min	sample max	Sample 3	0.020
0		0.020	0.020	•	

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Date

Issuing Analyst

Intox EC/IR-II: Certification

sid(

Department of Forensic Science Serial Number: 010591 Test Number: 841 Test Date: 01/29/2014 Test Time: 10:36 EST

Technician Initials: SED Dry Gas Target: 0.250

Lot Number: 0651225015-02 Exp Date: 04/01/2014
Tank Pressure: 384 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:36
BLK	0.000	10:37
CHK	0.251	10:38
BLK	0.000	10:39
CHK	0.251	10:40
BLK	0.000	10:42
CHK	0.251	10:43
BLK	0.000	10:45

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Sid

Department of Forensic Science Serial Number: 010591 Test Number: 842 Test Date: 01/29/2014 Test Time: 10:46 EST

Technician Initials: SED Dry Gas Target: 0.150

Lot Number: 0651215014-04 Exp Date: 04/01/2014
Tank Pressure: 850 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:47
BLK	0.000	10:47
CHK	0.150	10:48
BLK	0.000	10:50
CHK	0.150	10:50
BLK	0.000	10:52
CHK	0.150	10:53
BLK	0.000	10:54

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Sid

Intox EC/IR-II: Certification

Department of Forensic Science Serial Number: 010591 Test Number: 843 Test Date: 01/29/2014 Test Time: 10:57 EST

Technician Initials: SED Dry Gas Target: 0.080

Lot Number: 0651208012-01 Exp Date: 04/01/2014
Tank Pressure: 977 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:58
BLK	0.000	10:58
CHK	0.080	10:59
BLK	0.000	11:01
CHK	0.080	11:01
BLK	0.000	11:03
CHK	0.081	11:04
BLK	0.000	11:05

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

Sid

Intox EC/IR-II: Certification

Department of Forensic Science Serial Number: 010591 Test Number: 844 Test Date: 01/29/2014 Test Time: 11:07 EST

Technician Initials: SED Dry Gas Target: 0.020

Lot Number: 0651202011-07 Exp Date: 04/01/2014
Tank Pressure: 90 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:07
BLK	0.000	11:08
CHK	0.020	11:09
BLK	0.000	11:10
CHK	0.020	11:11
\mathtt{BLK}	0.000	11:12
CHK	0.020	11:13
\mathtt{BLK}	0.000	11:14

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010591 Test Number: 845

Dry Gas Target: 0.300

Lot Number: AG321804-04 Exp Date: 08/06/2015 Tank Pressure: 424 psi Barometric Pressure: 761 mmHg
System Check: Passed

Test	g/210L	Time
BLK	0.000	11:22
CHK	0.303	11:22
BLK	0.000	11:24
CHK	0.303	11:25
\mathtt{BLK}	0.000	11:27
CHK	0.302	11:28

Test Status: Success

Calibration CRC: FA805C68

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010591 Test Number: 846
Test Date: 01/29/2014 Test Time: 11:31 EST

Dry Gas Target: 0.100

Lot Number: AG227501-24 Exp Date: 10/01/2014

Tank Pressure: 325 psi Barometric Pressure: 761 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	11:32
CHK	0.101	11:33
BLK	0.000	11:35
CHK	0.101	11:36
BLK	0.000	11:37
CHK	0.101	11:38

Test Status: Success

Calibration CRC: FA805C68





COMMONWEALTH OF VIRGINIA DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

	T
NAME OF ACCUSED	NAME OF COURT
INSTRUMENT, TEST,	DFS
BREATH ANALYSIS	
SAMPLE EXAMINED AND TEST CONDUCTED BY	AGENCY
ON WHILE EAR WHILE THAT TEST COMPOCITED BY	Notivo i
DERSCH, SARAH, E	DFS Central Lab
DFS LICENSE NUMBER LICENSE EXPIRES	DATE TEST CONDUCTED
24178 10/01/2014	01/29/2014
TEST EQUIPMENT NUMBER	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
	深了了。 第15章 第15章 第15章 第15章 第15章 第15章 第15章 第15章
010591	。 一种的现在形式。 一种的一种, 一种, 一种, 一种, 一种, 一种, 一种, 一种,
RESULTS: TIME SAMPLE TAKEN11:46 EST	
RESULIS: TIME SAMPLE TAKEN	
SAMPLE'S ALCOHOL CONTENT 0.00	GRAMS PER 210 LITERS OF BREATH
ATTEST:	
	Г CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF
EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVE	D BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS
	S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIP-
MENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS	A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND
THIS DAY OF, 20	·
BREATH TEST OPERATOR	٦
BREATH FEOT OF ENGINEER	
☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF	ANALYSISSUBJECT'S SIGNATURE
CHIDIECT DEELISED TO SIGN FOR CODY OF CERTIFIC	ATE OF ANALYSIS

OPERATOR'S SIGNATURE